

**ALPHAMETICS****Edited by STEVEN KAHAN**

Please send solutions and proposals for new puzzles to  
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**51.3.1 English Seven** by Andrzej Bartz, Fuerth, Germany

$$(T W O)^2 + (T W O)^1 + (T W O)^0 = S E V E N$$

**51.3.2 Polish Seven** by Andrzej Bartz, Fuerth, Germany

$$(D W A)^2 + (D W A)^1 + (D W A)^0 = S E V E N$$

**51.3.3 Triply Doubly True** by Andrzej Bartz, Fuerth, Germany

$$\begin{aligned} T E N + 4(F I V E) + 5(S I X) &= S I X T Y \\ 4(T E N) + O N E &= F I V E + 6(S I X) \\ 7(F I V E) &= T E N + 25(O N E) \end{aligned}$$

(Solve this trio simultaneously.)

**51.3.4 On The Calendar** by Andrzej Bartz, Fuerth, Germany

$$A P R I L + M A Y \times J U L Y = J A N U A R Y$$

**51.3.5 Short International Alphametic** by Paul Boymel, Potomac, Maryland

$$I R A N \times L A O S = B O T S W A N A$$

**51.3.6 Long International Alphametic** by Frank Mrazik, Montreal, Quebec

$$\begin{aligned} &AFGHANISTAN + ALBANIA + ALGERIA + ANDORRA + ANGOLA + \\ &ANTIGUA + ARGENTINA + ARMENIA + BAHAMAS + BAHRAIN + BANGLADESH + \\ &BARBADOS + BENIN + BOSNIA + EAST + TIMOR + ESTONIA + FINLAND + GABON + \\ &GAMBIA + GHANA + GEORGIA + GRENADA + GUINEA + HAITI + INDIA + IRAN + \\ &ISRAEL + LEBANON + LESOTHO + LIBERIA + MALI + MALTA + MONTENEGRO + \\ &NIGER + ROMANIA + SAMOA + TOGO + TONGA + TRINIDAD + AND + TOBAGO = \\ &NETHERLANDS \end{aligned}$$

(Solve this one in base 16.)

## **SOLUTIONS TO ALPHAMETICS, Vol. 51, Number 3**

### **51.3.1 English Seven by Andrzej Bartz, Fuerth, Germany**

$$(304)^2 + (304)^1 + (304)^0 = 92721$$

### **51.3.2 Polish Seven by Andrzej Bartz, Fuerth, Germany**

$$(468)^2 + (468)^1 + (468)^0 = 219493$$

### **51.3.3 Triply Doubly True by Andrzej Bartz, Fuerth, Germany**

$$874 + 4(3507) + 5(156) = 15682$$

$$4(874) + 947 = 3507 + 6(156)$$

$$7(3507) = 874 + 25(947)$$

### **51.3.4 On The Calendar by Andrzej Bartz, Fuerth, Germany**

$$70514 + 973 \times 6843 = 6728753$$

### **51.3.5 Short International Alphametic by Paul Boymel, Potomac, Maryland**

$$6584 \times 2897 = 19073848$$

### **51.3.6 A Capital Idea ! by Frank Mrazik, Montreal, Quebec**

$$\begin{aligned} &e75befca4ef + e92efce + e9531ce + ef6011e + ef509e + ef4c5de + e153f4cfe + \\ &e183fce + 2ebe8ea + 2eb1ecf + 2ef59e63ab + 2e12e60a + 23fcf + 20afce + \\ &3ea4 + 4c801 + 3a40fce + 7cf9ef6 + 5e20f + 5e82ce + 5befe + 53015ce + \\ &513fe6e + 5dcf3e + bec4c + cf6ce + clef + cale39 + 932ef0f + 93a04b0 + \\ &9c231ce + 8e9c + 8e94e + 80f43f3510 + fc531 + 108efce + ae80e + 4050 + \\ &40f5e + 41cfc6e6 + ef6 + 402e50 = f34b319ef6a \end{aligned}$$